

Cloud Infrastructure Fundamentals

Gain hands-on experience in designing, deploying, and securing robust cloud infrastructure. This challenge encompasses building secure VPC networks, optimizing application performance with HTTP load balancing and Cloud Armor, leveraging containerization with Kubernetes, and creating event-driven architectures using Cloud Run and Pub/Sub.

**DURATION**

4 hours

**LEVEL**

200 - Intermediate

**FORMAT**

Instructor-led

What you'll learn

Overview	0 modules · 4 labs
Who this course is for	Someone who wants to build hands-on skills in deploying, securing, and scaling robust cloud infrastructure.
Products	- Google Kubernetes Engine - Advanced Networking - Google Cloud Armor Enterprise - Google Workspace App Composer - Confidential Cloud Run - Pub/Sub Partitioned - Virtual Private Cloud - Google Cloud Armor - AppSheet - Cloud Run - Pub/Sub
Prerequisites	A basic knowledge of Google Cloud Console and Python programming language will be beneficial.

Module 01

VPC Networks - Controlling Access

Topics	- VPC Networks - Controlling Access
Activities	GSP213 - VPC Networks - Controlling Access (60 mins)

Module 02

HTTP Load Balancer with Cloud Armor

Topics	- HTTP Load Balancer - Cloud Armor
Activities	GSP215 - HTTP Load Balancer with Cloud Armor (60 mins)

Module 03

Running a Containerized App on Google Kubernetes Engine

Topics

- Containerized App
- Google Kubernetes Engine

Activities

- GSP015 - Running a Containerized App on Google Kubernetes Engine (60 mins)
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Module 04

Build a Resilient, Asynchronous System with Cloud Run and Pub/Sub

Topics

- Resilient Asynchronous System
- Cloud Run
- Pub/Sub

Activities

- GSP650 - Build a Resilient, Asynchronous System with Cloud Run and Pub/Sub (60 mins)